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Resolution adopted by the General Assembly on 7 December 2017

[on the report of the Special Political and Decolonization Committee (Fourth Committee) (A/72/446)]

72/77. International cooperation in the peaceful uses of outer space

The General Assembly,

Recalling its resolutions 51/122 of 13 December 1996, 54/68 of 6 December 1999, 59/2 of 20 October 2004, 61/110 and 61/111 of 14 December 2006, 62/101 of 17 December 2007, 62/217 of 22 December 2007, 65/97 of 10 December 2010, 65/271 of 7 April 2011, 66/71 of 9 December 2011, 67/113 of 18 December 2012, 68/50 of 5 December 2013, 68/74 and 68/75 of 11 December 2013, 69/85 of 5 December 2014, 70/1 of 25 September 2015, 70/82 of 9 December 2015, 70/230 of 23 December 2015 and 71/90 of 6 December 2016,

Emphasizing the significant progress in the development of space science and technology and their applications that has enabled humans to explore the universe, and the extraordinary achievements made in space exploration efforts, including deepening the understanding of the planetary system and the Sun and the Earth itself, in the use of space science and technology for the benefit of all humankind and in the development of the international legal regime governing space activities,

Recognizing, in that regard, the unique platform at the global level for international cooperation in space activities represented by the Committee on the Peaceful Uses of Outer Space and its Scientific and Technical Subcommittee and Legal Subcommittee and assisted by the Office for Outer Space Affairs of the Secretariat,

Deeply convinced of the common interest of all humankind in promoting and expanding the exploration and use of outer space, as the province of all humankind, for peaceful purposes and in continuing efforts to extend to all Member States the benefits derived therefrom, and also of the importance of international cooperation in this field, for which the United Nations should continue to provide a focal point,

Reaffirming the importance of international cooperation in developing the rule of international law, including the relevant norms of international space law and their

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important role in international cooperation for the exploration and use of outer space for peaceful purposes, and of the widest possible adherence to international treaties that promote the peaceful uses of outer space in order to meet emerging new challenges, especially for developing countries,

Seriously concerned about the possibility of an arms race in outer space, and bearing in mind the importance of article IV of the Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies,[1]

Recognizing that all Member States, in particular those with major space capabilities, should contribute actively to the prevention of an arms race in outer space with a view to promoting and strengthening international cooperation in the exploration and use of outer space for peaceful purposes,

Deeply concerned about the fragility of the space environment and the challenges to the long-term sustainability of outer space activities, in particular the impact of space debris, which is an issue of concern to all nations,

Noting the progress achieved in the development of peaceful space exploration and applications as well as in various national and cooperative space projects, and the importance of further developing the legal framework to strengthen international cooperation in space,

Convinced that space science and technology and their applications, including satellite communications, Earth observation systems and satellite navigation technologies, provide indispensable tools for viable long-term solutions for sustainable development and can contribute more effectively to efforts to promote the development of all countries and regions of the world, and stressing in that regard the need to harness the benefits of space technology towards implementing the 2030 Agenda for Sustainable Development,[2]

Seriously concerned about the devastating impact of disasters,[3] and desirous of enhancing international coordination and cooperation at the global level in disaster management and emergency response through greater access to and use of space-based services and geospatial information for all countries and facilitating capacity-building and institutional strengthening for disaster management, in particular in developing countries,

Firmly convinced that the use of space science and technology and their applications in areas such as tele-health, tele-education, disaster management, environmental protection, natural resources management and ocean and climate monitoring contribute to achieving the objectives of the global conferences of the United Nations that address various aspects of economic, social and cultural development, particularly poverty eradication,

Deeply concerned about the devastating effects of infectious diseases, including Ebola virus disease, to the detriment of human life, society and development, and urging the international community to enhance the role of space-based solutions, in particular tele-epidemiology, in monitoring, preparedness and response activities,

Recalling the fact that the United Nations Conference on Sustainable Development, held in Rio de Janeiro, Brazil, from 20 to 22 June 2012, recognized the important role that space science and technology play in promoting sustainable development,[4]

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[1] United Nations, *Treaty Series*, vol. 610, No. 8843.

[2] Resolution 70/1.

[3] The term "disasters" refers to natural or technological disasters.

[4] Resolution 66/288, annex, para. 274.

Having considered the report of the Committee on the Peaceful Uses of Outer Space on the work of its sixtieth session,[5]

1. *Endorses* the report of the Committee on the Peaceful Uses of Outer Space on the work of its sixtieth session;[5]

2. *Agrees* that the Committee, at its sixty-first session, should consider the substantive items recommended at its sixtieth session,[6] taking into account the concerns of all countries, in particular those of developing countries;

3. *Notes* that, at its fifty-sixth session, the Legal Subcommittee of the Committee continued its work,[7] as mandated by the General Assembly in its resolution 71/90;

4. *Agrees* that the Legal Subcommittee, at its fifty-seventh session, should consider the substantive items and reconvene the working groups recommended by the Committee,[8] taking into account the concerns of all countries, in particular those of developing countries;

5. *Urges* Member States that have not yet become parties to the international treaties governing the uses of outer space[9] to give consideration to ratifying or acceding to those treaties in accordance with their national law, as well as incorporating them into their national legislation;

6. *Notes with satisfaction* that the space law curriculum developed by the Office for Outer Space Affairs of the Secretariat and published in all official languages of the United Nations could encourage further studies within Member States in cooperation with relevant entities in support of capacity-building efforts in space law and policy;

7. *Takes note* of the report of the Working Group on the Review of International Mechanisms for Cooperation in the Peaceful Exploration and Use of Outer Space on the work conducted under its multi-year workplan,[10] as finalized at the fifty-sixth session of the Legal Subcommittee, and notes that the report provides an important source of information and useful guidance for further joint undertakings by spacefaring nations and emerging space nations, as appropriate;

8. *Notes* that, at its fifty-fourth session, the Scientific and Technical Subcommittee of the Committee continued its work,[11] as mandated by the General Assembly in its resolution 71/90;

9. *Agrees* that the Scientific and Technical Subcommittee, at its fifty-fifth session, should consider the substantive items and reconvene the working groups

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[5] *Official Records of the General Assembly, Seventy-second Session, Supplement No. 20* (A/72/20).

[6] Ibid., para. 349.

[7] Ibid., chap. II.C; see also A/AC.105/1122.

[8] *Official Records of the General Assembly, Seventy-second Session, Supplement No. 20* (A/72/20), paras. 244–246.

[9] Treaty on Principles Governing the Activities of States in the Exploration and Use of Outer Space, including the Moon and Other Celestial Bodies (United Nations, *Treaty Series*, vol. 610, No. 8843); Agreement on the Rescue of Astronauts, the Return of Astronauts and the Return of Objects Launched into Outer Space (United Nations, *Treaty Series*, vol. 672, No. 9574); Convention on International Liability for Damage Caused by Space Objects (United Nations, *Treaty Series*, vol. 961, No. 13810); Convention on Registration of Objects Launched into Outer Space (United Nations, *Treaty Series*, vol. 1023, No. 15020); and Agreement Governing the Activities of States on the Moon and Other Celestial Bodies (United Nations, *Treaty Series*, vol. 1363, No. 23002).

[10] A/AC.105/C.2/112.

[11] *Official Records of the General Assembly, Seventy-second Session, Supplement No. 20* (A/72/20), chap. II.B; see also A/AC.105/1138.

recommended by the Committee,[12] taking into account the concerns of all countries, in particular those of developing countries;

10. *Reiterates* the importance of information-sharing in discovering, monitoring and physically characterizing potentially hazardous near-Earth objects to ensure that all countries, in particular developing countries with limited capacity for predicting and mitigating a near-Earth object impact, are aware of potential threats, emphasizes the need for capacity-building for effective emergency response and disaster management in the event of a near-Earth object impact, and notes with satisfaction the work carried out by the International Asteroid Warning Network and the Space Mission Planning Advisory Group to strengthen international cooperation to mitigate the potential threat posed by near-Earth objects, with the support of the Office, serving as the permanent secretariat of the Advisory Group;[13]

11. *Notes with appreciation* that some Member States are already implementing space debris mitigation measures on a voluntary basis, through national mechanisms and consistent with the Space Debris Mitigation Guidelines of the Inter-Agency Space Debris Coordination Committee and with the Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space,[14] endorsed by the General Assembly in its resolution 62/217, and invites other Member States to implement, through relevant national mechanisms, the Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space;

12. *Considers* that it is essential that Member States pay more attention to the problem of the gradually increasing probability of collisions of space objects, especially those with nuclear power sources, with space debris, and other aspects of space debris, calls for the continuation of national research on this question, for the development of improved technology for the monitoring of space debris and for the compilation and dissemination of data on space debris, also considers that, to the extent possible, information thereon should be provided to the Scientific and Technical Subcommittee, and agrees that international cooperation is needed to expand appropriate and affordable strategies to minimize the impact of space debris on future space missions;

13. *Urges* all Member States, in particular those with major space capabilities, to contribute actively to the goal of preventing an arms race in outer space as an essential condition for the promotion of international cooperation in the exploration and use of outer space for peaceful purposes;

14. *Requests* the Committee to continue to consider, as a matter of priority, ways and means of maintaining outer space for peaceful purposes and to report thereon to the General Assembly at its seventy-third session, and agrees that the Committee should continue to consider the broader perspective of space security and associated matters that would be instrumental in ensuring the safe and responsible conduct of space activities, including ways to promote international, regional and interregional cooperation to that end;

15. *Emphasizes* the significant role of the Office in promoting international cooperation in the exploration and peaceful uses of outer space for economic, social and scientific development, in particular for the benefit of developing countries;

16. *Notes with satisfaction* the programme of work undertaken by the Office in 2017 to strengthen international cooperation in the conduct of space activities for

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[12] *Official Records of the General Assembly, Seventy-second Session, Supplement No. 20* (A/72/20), paras. 164 and 165.

[13] See A/AC.105/1138, paras. 205–210.

[14] *Official Records of the General Assembly, Sixty-second Session, Supplement No. 20* (A/62/20), annex.

peaceful purposes and the use of space science and technology and their applications towards the achievement of the internationally agreed Sustainable Development Goals, including the workshops and symposiums conducted to build capacity, the assistance provided to developing countries, at their request, in the development of national space policy and legislation in conformity with international space law, and actions implemented to strengthen institutional capacity in space activities;

17. *Requests* the Office to continue to apprise the Committee and its Scientific and Technical Subcommittee and Legal Subcommittee, at their respective sessions in 2018, of the status of its capacity-building activities;

18. *Recognizes* the capacity-building activities under the United Nations Programme on Space Applications, which provide unique benefits for Member States, in particular developing countries, participating in those activities;[15]

19. *Notes with satisfaction* the activities carried out under the United Nations Platform for Space-based Information for Disaster Management and Emergency Response (UN-SPIDER), and recognizes the significant achievements made and the advisory support provided to 40 Member States within the framework of UN-SPIDER since its establishment in 2006[16] with the valuable contributions of its network of regional support offices, and encourages Member States, on a voluntary basis, to provide the programme with the additional resources necessary to address the increasing demand for support successfully and in a timely manner;

20. *Reiterates* the importance of the Sendai Framework for Disaster Risk Reduction 2015–2030,[17] in which the value of space-based technology and Earth observation for disaster management and emergency response is recognized, and notes with satisfaction the efforts of the Office and its UN-SPIDER programme towards promoting international cooperation as a way to enhance the use of space-based technologies and related services at the national and local levels in contributing to the implementation of the Sendai Framework and the 2030 Agenda for Sustainable Development;[2]

21. *Notes with satisfaction* the continuous progress made by the International Committee on Global Navigation Satellite Systems with the support of the Office, in its capacity as executive secretariat of the International Committee, towards achieving compatibility and interoperability among global and regional space-based positioning, navigation and timing systems and in the promotion of the use of global navigation satellite systems and their integration into national infrastructure, particularly in developing countries, and notes with appreciation that the International Committee will hold its twelfth meeting in Kyoto, Japan, from 2 to 7 December 2017;

22. *Notes with appreciation* that the regional centres for space science and technology education, affiliated to the United Nations, namely, the African regional centres for space science and technology education in the French and English languages, located in Morocco and Nigeria, respectively, the Regional Centre for Space Science and Technology Education for Asia and the Pacific, located in China, the Centre for Space Science and Technology Education in Asia and the Pacific, located in India, the Regional Centre for Space Science and Technology Education for Latin America and the Caribbean, with campuses located in Brazil and Mexico, and the Centre for Space Science and Technology Education for Western Asia, located in Jordan, have continued their education programmes in 2017, encourages the regional centres to continue to promote greater participation of women in their

[15] See A/AC.105/1138, sect. II.

[16] Resolution 61/110.

[17] Resolution 69/283, annex II.

education programmes, and agrees that the regional centres should continue to report to the Committee on the Peaceful Uses of Outer Space on their activities;

23. *Emphasizes* that regional and interregional cooperation in the field of space activities is essential to strengthen the peaceful uses of outer space, assist Member States in the development of their space capabilities and contribute to the implementation of the 2030 Agenda for Sustainable Development, to that end requests relevant regional organizations and their groups of experts to offer the assistance necessary so that countries can carry out the recommendations of regional conferences, and in that regard notes the importance of the equal participation of women in all fields of science and technology;

24. *Recognizes*, in that regard, the important role played by such organizations as the Asia-Pacific Space Cooperation Organization and the European Space Agency and by conferences and other mechanisms, such as the Asia-Pacific Regional Space Agency Forum and the Space Conference of the Americas, in strengthening regional and international cooperation among Member States;

25. *Welcomes* the adoption of the African Space Policy and Strategy by the Assembly of the African Union at its twenty-sixth ordinary session, held in Addis Ababa on 30 and 31 January 2016, and notes that this achievement marks the first step towards the realization of an African outer space programme within the framework of the African Union Agenda 2063;

26. *Emphasizes* the need to increase the benefits of space technology and its applications and to contribute to an orderly growth of space activities favourable to sustained economic growth and sustainable development in all countries, including strengthening sustainable spatial data infrastructure at the regional and national levels and building resilience to reduce the consequences of disasters, in particular in developing countries;

27. *Reiterates* the need to promote the benefits of space technology and its applications in the major United Nations conferences and summits for economic, social and cultural development and related fields, and recognizes that the fundamental significance of space science and technology and their applications for global, regional, national and local sustainable development processes should be promoted in the formulation of policies and programmes of action and their implementation, including through efforts towards achieving the objectives of those conferences and summits and in implementing the 2030 Agenda for Sustainable Development;

28. *Encourages* Member States, to that end, to promote the inclusion in those conferences, summits and processes of the relevance of space science and technology applications and the use of space-derived geospatial data, with the involvement of the Office;

29. *Encourages* the Office to take active part in those conferences, summits and processes and other activities in support of the objectives, as appropriate, and to conduct capacity-building activities, hold lectures and participate in academic and research activities to foster international cooperation in the peaceful uses of outer space;

30. *Urges* the Inter-Agency Meeting on Outer Space Activities (UN-Space), under the leadership of the Office, to continue to examine how space science and technology and their applications could contribute to the 2030 Agenda for Sustainable Development, and encourages entities of the United Nations system to participate, as appropriate, in UN-Space coordination efforts;

31. *Encourages* the Office to continue to conduct capacity-building and outreach activities associated with space security and transparency and confidence-building measures in outer space activities, as appropriate, and within the context of the long-term sustainability of outer space activities;

32. *Also encourages* the Office to continue exploring existing avenues and new opportunities to increase its capability to meet the growing demand for support to strengthen the capacity of countries, in particular developing countries, in using space science and technology and their applications and to inform the Committee of those efforts;

33. *Agrees* that the Office should pursue greater engagement with industry and private sector entities to further their support for and contributions to the overall work of the Office;[18]

34. *Appeals* to Governments, the relevant entities of the United Nations system, intergovernmental and non-governmental organizations, institutions, industry and private sector entities and individuals to make voluntary contributions to the trust fund in support of the United Nations Programme on the Peaceful Uses of Outer Space in order to support the efforts of the Office to secure additional resources to facilitate the full implementation of its programme of work, including, where appropriate, the financing of special projects, and otherwise to assist the Office in carrying out technical cooperation and assistance activities, in particular for developing countries;

35. *Decides* that Bahrain, Denmark and Norway shall become members of the Committee;

36. *Endorses* the decision of the Committee to grant permanent observer status to the European Science Foundation, represented by the European Space Sciences Committee, and the University Space Engineering Consortium-Global;[19]

37. *Encourages* the regional groups to promote active participation in the work of the Committee on the Peaceful Uses of Outer Space and its subsidiary bodies by the States members of the Committee that are also members of the respective regional groups.

66th plenary meeting
7 December 2017

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[18] *See Official Records of the General Assembly, Seventy-second Session, Supplement No. 20* (A/72/20), para. 326.

[19] Ibid., paras. 345 and 347.